DEBURR

May-21-13 3:43:25 PM Item ID: D4048-7 Accept *N900040100* Setup Start **Revision ID:** Item Name: Mounting Lug **Start Date:** 5/21/13 **Start Oty: 12.00 Cust Item ID:** Required Date: 6/04/13 Req'd Qty: 12.00 **Customer:** Reference: Run Process Plan: ML5 Date: 13-05 22 Tooling: **Approvals:** Date: Stop QC: Date: **SPC (Y/N):** Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp Draw Nbr **Revision Nbr** D4048 Α 100 0.00 *100* Bandsaw 0.00 Memo Jeaspa Bandsaw CUT BLANK 7.320" LONG 110 0.00 13.6.12 *110* HAAS 1 0.00Memo HAAS CNC vertical machine #1 MILL AS PER DWG AND FOLIO FA898 FOLIO REV:

NCR:	Yes	1	No
NCN.	162	•	110

											DQA.	Date.	
NCR:	Yes	/ No				WORK ORDER NON-	100	NFORM	MANCE / UPDATE				
,											QA Closed:	Date:	
ork Ord	or.					DISPOSITION			AGAINST	DEF	PARTMENT	PROCESS	
OIR OIG	٠					Rework	1	Skid-tube Crosstube Water Jet					Engineering
Part I	Vo.					Scrap	1]		Machining Small Fab	-	Pro	d. Eng. Coor.	Quality
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NCR I	No.		•			Work Order Update			Large Fab Composite			Supplier]
Root						ption of work order update	1	nitial	Action		Sign &		
Cause	,	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Description	_	Date	Verification	QC Inspector
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	\vdash	Ripples in	-	Tube	H	Drill Holes	\vdash	Offset	a	لبا	TOWEL LUSS/.	Juige L	Journe
	\vdash	Torque W		- xtrusio	<u>,</u>	Drawing		4	Calibration	-		1.1.	
	\vdash	Turning S			··	Finish		-1	Sequence	-			
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Outside Dimensions

Wave/Twist in Tube

Work Order ID 101967 May-21-13 3:43:25 PM

Item ID: Revision ID: Item Name:	D4048-7 Mounting Lug	Ţ		Accept	*N900	<u>040100</u>)* s	Setup Star Stop	171.	
Start Date: Required Date: Reference:	5/21/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item I Customer:	ID:			IV.	7/
Approvals:	Process Pla	n:	Date:	Tooling:	D	ate:	R	Run Star	1/11	₹1*
	QC:		Date:	SPC (Y/N):	D:	ate:		Stop	` *NF	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*120 *120* QC Quality Control		QC2- Inspect parts off mad	chine FAI/FAIB	0.00		13.6.12				24 24 3-85
130 *130* QC Quality Control		QC8- Inspect parts - secon	d check	0.00 m	L 13/061	14	12	_13_		
140 *140* HandFinish Hand Finishing		Chemical Conversion Coal	t per QSI005 4.1	0.00			12	P	5136	17

										DQA:	Date:	
NCR: Y	'es /	No			-	WORK ORDER NON-	CONFOR	MANCE / UF	PDATE	QA Closed:	Date:	
Work Orde	ır.					DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Work Orac	···					Rework	1 I	Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	lo.					Scrap	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
						Use-as-is	- 1	moforming	Finishing	1	re/Packaging	Other
NCR N	lo.					Work Order Update	1 1	Large Fab	Composite]	Supplier	
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Root					Descri	ption of work order update	Initial	A	ction	Sign &		
Cause	Da	te	Step	Qty	. •	or Non-conformance	Chief Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data												
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7			FAULT CATEGORY		
Landi	ng Gear	General			. " .
	Bending	Bend	Grain	Qvalized	Pressure/Forced
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld
	Crushed/Crimped	Burrs	Instructions Incomplete/Uncl	ear Part Lost/Missing	Wrong Stock Pulled
	Cuffs	Contamination	Maintenance	Part Moved	
•	Heat Treat	Countersink	Mislabeled	Positioned Wrong	
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other
	Ripples in Bend	Drill Holes	Offset		
	Torque Waves in Extrusion	Drawing	Out of Calibration		·
	Turning Sequence	Finish	Out of Sequence		:
	Wave/Twist in Tube	Folio	Outside Dimensions		

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

0.00

170

170
Packaging

Packaging

Identify as per dwg & Stock Location

Memo

											DQA:	Date:	:
NCR:	Yes	/ No				WORK ORDER NON-O	COI	NFORM	MANCE / UPDATE				
											QA Closed:	Date	<u> </u>
Work Ord	or.					DISPOSITION	ļ		AG	AINST DE	PARTMENT,	/PROCESS	
	_					Rework		1	⊢	sstube	,	Water Jet	Engineering
Part I	л о. –					Scrap	┨	•	~ <u>⊢</u> —⊢	ali Fab	1	d. Eng. Coor.	Quality
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Root					Descri	ption of work order update		Initial	Action		Sign &		
Cause		Date	Step	Qty	,	or Non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
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Material	Ш							;					
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Process	Ш				ļ		1						
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Unapproved							$oldsymbol{ol}}}}}}}}}}}}}}}}}$						
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Landi	ing G	ear				General	_	,		_	1	-	7
		Bending				Bend	\perp	Grain		_	Ovalized	<u> </u>	Pressure/Forced
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	Щ	Cuffs				Contamination	L	Mainte	enance		Part Moved		
	1 1	Heat Trea	it		1	Countersink	1	Mislabe	led		Positioned V	/rong	

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

May-21-13 3:43:25 PM Item ID: D4048-7 Accept *N900040100* Setup Start **Revision ID:** Item Name: Mounting Lug **Start Date:** 5/21/13 **Start Qty: 12.00** *12* **Cust Item ID:** Required Date: 6/04/13 Req'd Qty: 12.00 **Customer:** Reference: Run Process Plan: **Approvals:** Date: Tooling: Date: Stop Date: **SPC (Y/N):** Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description Run Hours Code Qty Qty Number Stamp 180 QC21- Final Inspection - Work Order Release 0.00 *120* Memo 0.00 Quality Control

Misory?

											DQA:	Da	ite:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFOR	MANCE / UPDA	NTE				
											QA Closed:	Da	ite:	•
Work Orde	or.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Work Orde	-					Rework	7	1	Skid-tube	Crosstube	1	Water Jet	П	Engineering
Part N	No.					Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.		Quality
	•					Use-as-is	1	Thern	noforming	Finishing	Rec/Sto	re/Packaging		Other
NCR N	۷o.					Work Order Update			Large Fab	Composite]	Supplier		
Root	_		Ĭ	ı	Descr	iption of work order update	T	Initial	Action		Sign &		\neg	
Cause		Date	Step	Qty	1	or Non-conformance	1	nief Eng	Descript		Date	 Verificatio	n	QC Inspector
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1 4:							·AUI	LT CATE	GUKY		:			
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	h	Cuffs	Ciliped		-	Contamination	\vdash	Mainte	•		Part Moved	'b	ш	The state of the s

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

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Work Order ID: 101967

Parent Item:

D4048-7

Parent Item Name: Mounting Lug

101967 *D4048-7*

Start Date: 5/21/13

Required Date: 6/04/13

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP REV:A NEW ISSUE JLM 10-01-26 VERIFIED BY:EC

as per dwg revA DD 10.02.18 verified by:EC

IPP Rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B1.500X04.00 0		Purchased	No			100	f	17.0000	0.61	7.705263			
*M6061T6	SB1 500	X04 00	10 *						**		Jh.1	3-6-9	
000110 Bai 1.300 X 4.00						1	l.						
, , , , , , , , , , , , , , , , , , ,	~			Location		Loc C	<u>Į</u> <u>Ptv</u>	Loc Code					
, , , , , , , , , , , , , , , , , , ,	~			MAT009	13797	Loc C	<u>Dty</u> 1 ₁₇	Loc Code					

Page 1

NCR: Y	ICR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE													
· · · ·											QA Closed:	0	ate:	
Work Orde	·				DISPOSITION				AGAINST	DE	PARTMENT,	/PROCESS		
Part N					Rework Scrap]	Skid-tube Crosstube Machining Small Fab			_	Water Jet Prod. Eng. Coor.			Engineering Quality
NCR N	0.				Use-as-is Work Order Update		Thermoforming Finishing Large Fab Composite			Rec/Store/Packaging			Other	
Root				Descri	ption of work order update	Π	Initial	Act	tion		Sign &			
Cause	Date	Step	Qty		or Non-conformance	Ch	nief Eng	Desci	ription		Date	Verificati	on	QC Inspector
Doc/Data														•
Equip/Tooling														•
Operator														•
Material							:							
Setup														
Other														
Process	_													
Supplier														
Training														
Unapproved	l	<u> </u>											i	
	· · · ·					AUL	LT CATE	GORY			· · · · · · ·			
Landin F	ng Gear			<u> </u>	General		1			_	1		$\overline{}$	- 4- 1
1	Bending			_ ,_	Bend	-	Grain			\vdash	Ovalized		-	Pressure/Forced
		lot Conce	ntric to (^{D/S}	BOM/Route	 	Hardwa			-	Over/Under		\vdash	Temperature/Cure
-	Cracks			-	Broken/Damaged	\vdash	4	on Incomplete		_	Part Incorred		-	Weld
1		/Crimped		<u> </u>	Burrs	\vdash	4	ions Incomplete/I	Unclear		Part Lost/Mi	ssing	Ш	Wrong Stock Pulled
}	Cuffs			<u> </u>	Contamination	-	Mainte			<u> </u>	Part Moved			
	Heat Tre			<u> </u>	Countersink	-	Mislabe			\vdash	Positioned W	-		Othor
	 -	on Strip in	lube		Cut Too Short	\vdash	Misread	1		Ш	Power Loss/	ourge	Ш	Other
}	Ripples i		-	<u> </u>	Drill Holes	-	Offset	Salih aaki aa						
	Torque \	Naves in I	Extrusioi	ו ו	Drawing		Out of C	Calibration						

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD		Work Order:	101967
	1		1 6
Description: Mounting Lug		Part Number:	D4048-7
Inspection Dwg: D4048 Rev: A			Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
7.08	+/-0.030	7.077			Fait gage	7
1.38	+/-0.030	1.375		/	3 24 1	4/
0.875	+/-0.010	. 870				1/
0.415	+0.015/-0.000	. 417				· · · · · · · · · · · · · · · · · · ·
0.293	+/-0.010	, 293				
0.770	+/-0.010	. 768				
0.115	+/-0.010	. 1/6				
1.00	+/-0.030	1.002				
3.75	+/-0.030	3.750		/		
3.000	+/-0.010	3-000		_		
1.500	+/-0.010	1-500		/		
0.375	+/-0.010	, 373				
0.375	+/-0.010	. 37/2				
Ø0.257	+0.006/-0.001	. 257				The second secon
0.400	+/-0.010,	- 399		/		
0.200	+/-0.010	. 204,		_		
4.13	+/-0.030	4.126				
1.20	+/-0.030	1.202		_		
. 0.53	+/-0.030	. 526				
2.00	+/-0.030	1. 999				
1.74	+/-0.030	1-737		/	_	
0.125	+/-0.010	. 128				· · · · · · · · · · · · · · · · · · ·
0.93	+/-0.030	, 928				· · · · · · · · · · · · · · · · · · ·
1.95	+/-0.030	1.950		· · · `	<i>y</i>	
1.79	+/-0.030	7.793				
0.53	+/-0.030	. S25			\	
Ø0.375	+0.006/-0.001	- 377				5. · · ·
0.435 x 45°	+/-0.010 x +/-0.5°	. 435				
	2AQ					* 1811

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Measured by:	8-83 05-	Audited by:	m	Preliminary Approval:	
Date:	13-6-12	Date:	13/06/14	Date:	

Rev	Date	Change	Revised by	10	Approved
Α	10.06.08	New Issue	KJ 9	W -	1
					- 193

